

## Excellent Integrated System Limited

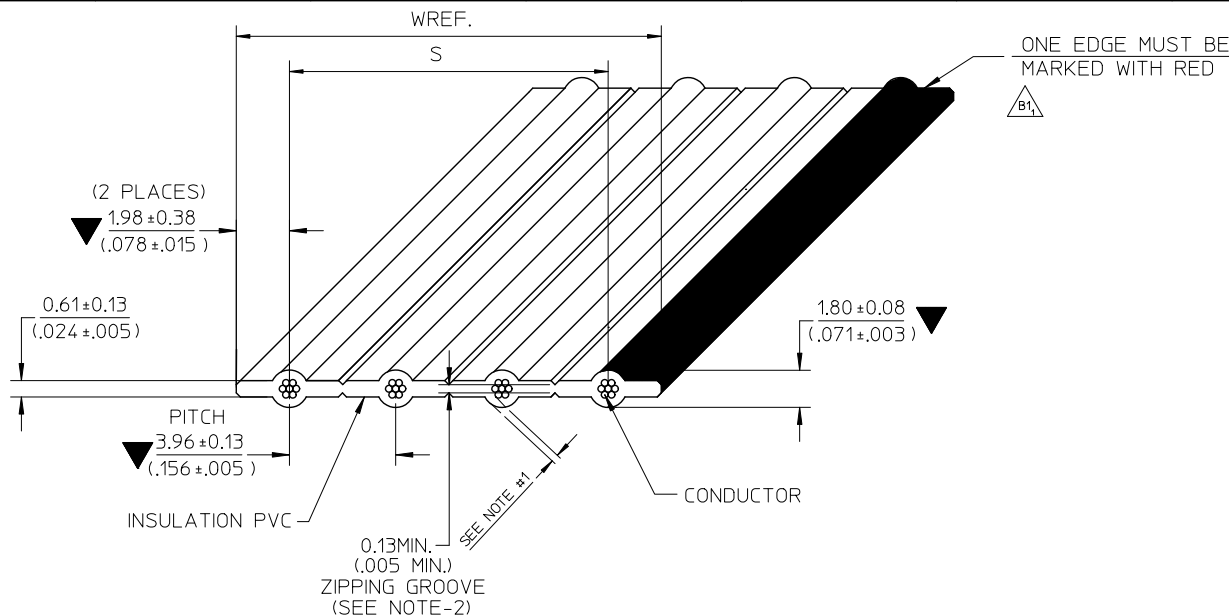
Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)  
[82-18-6005](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)



- NOTE :**
1. THE CABLE SHALL HAVE A MINIMUM OF 0.178mm. (.007") THICKNESS INSULATION AT ANY POINT
  2. RIP TEST:
    - THE 0.13mm. (.005") ZIPPING GROOVE SHALL BE CAPABLE OF BEING RIPPED BY HAND WITHIN THE RECESS, WITHOUT EXPOSING THE ADJACENT CONDUCTORS
  3. RoHS AND LEAD FREE COMPLIANT
  4. SPECIAL REQUIREMENT: N/A

| PRODUCT APPLICATION                 |                |
|-------------------------------------|----------------|
| <input checked="" type="checkbox"/> | GENERAL USE    |
| <input type="checkbox"/>            | AUTOMOTIVE     |
| <input type="checkbox"/>            | MEDICAL DEVICE |

|                                                                                                                                     |  |  |  |                               |                                       |                                |                          |                              |                                        |                      |                                                                                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------|---------------------------------------|--------------------------------|--------------------------|------------------------------|----------------------------------------|----------------------|-----------------------------------------------------------------------------------|--|
| SEE CHANGE DETAIL:                                                                                                                  |  |  |  | QUALITY SYMBOLS<br>▽=3<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                | DIMENSION STYLE<br>MM/IN |                              | SCALE<br>NTS                           | DESIGN UNITS<br>INCH | THIRD ANGLE<br>PROJECTION                                                         |  |
| SEE CHANGE DETAIL:<br>EC NO: THL2011-0054<br>DRWN:CPANSAKHOM 2010/10/06<br>CHKD:PMEECHAI 2011/01/25<br>APPR:SVIRAT JAPOL 2011/03/31 |  |  |  |                               |                                       |                                |                          |                              |                                        |                      |                                                                                   |  |
| B1                                                                                                                                  |  |  |  |                               | mm                                    |                                | INCH                     |                              | DRAWN BY<br>CPANSAKHOM 2006/08/09      |                      | TITLE<br>FCB ROUND CONDUCTOR<br>3.96MM(.156)CENTERS PVC.<br>18AWG STRANDED TINNED |  |
| B                                                                                                                                   |  |  |  |                               | ± ---                                 |                                | ± ---                    |                              | CHECKED BY<br>PMEECHAI 2006/08/09      |                      | MOLEX INCORPORATED                                                                |  |
| A                                                                                                                                   |  |  |  |                               | ± ---                                 |                                | ± ---                    |                              | APPROVED BY<br>SVIRAT JAPOL 2006/08/09 |                      | SHEET NO.<br>1 OF 3                                                               |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                          |  |  |  | ANGULAR ± ---°                |                                       | SEE CHART                      |                          | MATERIAL NO.<br>SD-40174-001 |                                        |                      |                                                                                   |  |
| REV. HISTORY                                                                                                                        |  |  |  | EC NO.                        |                                       | DETAIL                         |                          | DATE                         |                                        | SIZE<br>A4           |                                                                                   |  |
| B1                                                                                                                                  |  |  |  | E-10-0371                     |                                       | B1 : REMOVE REELS MFG. IN NOG. |                          | 2011/01/25                   |                                        |                      |                                                                                   |  |
| B                                                                                                                                   |  |  |  | E-07-0748                     |                                       | B1 : ADD NON-OPERATING TEMP.   |                          | 2007/11/23                   |                                        |                      |                                                                                   |  |
| A                                                                                                                                   |  |  |  | N/A                           |                                       | INITIAL DRAFT                  |                          | 2006/08/09                   |                                        |                      |                                                                                   |  |
| REV. HISTORY                                                                                                                        |  |  |  | EC NO.                        |                                       | DETAIL                         |                          | DATE                         |                                        |                      |                                                                                   |  |

tb\_frame\_A4\_P\_ME\_T  
Rev. E 2006/04/15

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# SPECIFICATIONS

## PHYSICAL

CONDUCTOR SPACING ..... 3.96 (0.156")  $\varnothing$  TO  $\varnothing$   
WIRE GAUGE ..... 18 AWG(7/26) STRANDED TINNED  
INSULATION ..... P.V.C GRAY (LEAD FREE)

## AGENCY

U.L. STYLE NO. .... 2651  
TEMPERATURE RATING ..... -20°C TO 105°C  
VOLTAGE RATING ..... 300V.MAX.  
FLAMMABILITY RATING ..... VW-1

## ELECTRICAL

CONDUCTOR RESISTANCE (D.C.) ..... 7 m OHMS/FT. MAX.  
CHARACTERISTIC IMPEDANCE ..... 128 OHMS NOM. (GS)  
..... 105 OHMS NOM. (GSG)  
CAPACITANCE ..... 5.9 pF/FT. NOM. (GS)  
..... 10.9 pF/FT. NOM. (GSG)  
PROPAGATION DELAY ..... 1.4 ns/FT. NOM.  
INSULATION RESISTANCE ..... 10 M OHMS (10FT. SAMPLE)  
DIELECTRIC WITHSTAND VOLTAGE ..... 2000 VRMS/MINUTE

## GENERAL

NON-OPERATING TEMPERATURE ..... -20°C TO 105°C  
FAULTS AND/OR SPLICES ..... 1/REEL MAX. 100 $\pm$ <sup>3</sup><sub>0</sub> FT. (30.48 $\pm$ <sup>0.914</sup><sub>0</sub> M.)/REEL  
..... 20FT. (6.096M.) MIN. LENGTH

|                                                                                                                                          |                                       |          |                                       |        |                             |                    |                                                                                                                               |                      |                        |                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------|---------------------------------------|--------|-----------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------|---------------------------------------------------------------------------------------------------------|
| SEE CHANGE DETAIL:<br>EC NO: THL2011-0054<br>DRWN:CPANSKHOM 2010/10/06<br>CHKD:PMEECHAI 2011/01/25<br>APPR:SVIRAT JAPOL 2011/03/31<br>B1 | QUALITY SYMBOLS<br>DESCRIPTION<br>REV | =<br>=   | GENERAL TOLERANCES (UNLESS SPECIFIED) |        | DIMENSION STYLE<br>MM/IN    |                    | SCALE<br>NTS                                                                                                                  | DESIGN UNITS<br>INCH | THIRD ANGLE PROJECTION | TITLE<br>FCB ROUND CONDUCTOR<br>3.96MM(.156)CENTERS PVC.<br>18AWG STRANDED TINNED<br>MOLEX INCORPORATED |
|                                                                                                                                          |                                       |          | mm                                    | INCH   | DRAWN BY<br>CPANSKHOM       | DATE<br>2006/08/09 | DOCUMENT NO.<br>SD-40174-001                                                                                                  |                      |                        |                                                                                                         |
|                                                                                                                                          |                                       | 4 PLACES | ± ---                                 | ± ---  | CHECKED BY<br>PMEECHAI      | DATE<br>2006/08/09 | MATERIAL NO.                                                                                                                  |                      | SIZE<br>A4             |                                                                                                         |
|                                                                                                                                          |                                       | 3 PLACES | ± ---                                 | ± ---  | APPROVED BY<br>SVIRAT JAPOL | DATE<br>2006/08/09 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                      |                        |                                                                                                         |
|                                                                                                                                          |                                       | 2 PLACES | ± ---                                 | ± ---  |                             |                    |                                                                                                                               |                      |                        |                                                                                                         |
|                                                                                                                                          |                                       | 1 PLACE  | ± ---                                 | ± ---  |                             |                    |                                                                                                                               |                      |                        |                                                                                                         |
|                                                                                                                                          |                                       | ANGULAR  |                                       | ± ---° |                             |                    |                                                                                                                               |                      |                        |                                                                                                         |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                               |                                       |          | SEE CHART                             |        |                             |                    |                                                                                                                               |                      |                        |                                                                                                         |

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| CHART A                 |              |                         |               | SHIPPED ON      |            |
|-------------------------|--------------|-------------------------|---------------|-----------------|------------|
| DIMENSIONS MM. (INCHES) |              |                         |               | 100 FT. REELS   |            |
| ENG. NO.                | NO. OF COND. | DIMENSION S             | DIM. W (REF)  | ENGINEERING NO. | ORDER NO.  |
| 40174- 2                | 2            | 3.96±0.13 (.156±.005)   | 7.92 (.312)   | 40174-02-100B   | 82-18-6002 |
| 40174- 3                | 3            | 7.92±0.25 (.312±.010)   | 11.89 (.468)  | ▲ -03- ▲        | ▲ 03       |
| 40174- 4                | 4            | 11.89±0.38 (.468±.015)  | 15.85 (.624)  | ▲ -04- ▲        | ▲ 04       |
| 40174- 5                | 5            | 15.85±0.38 (.624±.015)  | 19.81 (.780)  | ▲ -05- ▲        | ▲ 05       |
| 40174- 6                | 6            | 19.81±0.38 (.780±.015)  | 23.77 (.936)  | ▲ -06- ▲        | ▲ 06       |
| 40174- 7                | 7            | 23.77±0.38 (.936±.015)  | 27.74 (1.092) | ▲ -07- ▲        | ▲ 07       |
| 40174- 8                | 8            | 27.74±0.38 (1.092±.015) | 31.70 (1.248) | ▲ -08- ▲        | ▲ 08       |
| 40174- 9                | 9            | 31.70±0.38 (1.248±.015) | 35.66 (1.404) | ▲ -09- ▲        | ▲ 09       |
| 40174-10                | 10           | 35.66±0.38 (1.404±.015) | 39.62 (1.560) | ▲ -10- ▲        | ▲ 10       |
| 40174-11                | 11           | 39.62±0.38 (1.560±.015) | 43.59 (1.716) | ▲ -11- ▲        | ▲ 11       |
| 40174-12                | 12           | 43.59±0.38 (1.716±.015) | 47.55 (1.872) | ▲ -12- ▲        | ▲ 12       |
| 40174-13                | 13           | 47.55±0.38 (1.872±.015) | 51.51 (2.028) | ▲ -13- ▲        | ▲ 13       |
| 40174-14                | 14           | 51.51±0.38 (2.028±.015) | 55.47 (2.184) | ▲ -14- ▲        | ▲ 14       |
| 40174-15                | 15           | 55.47±0.38 (2.184±.015) | 59.44 (2.340) | ▲ -15- ▲        | ▲ 15       |
| 40174-16                | 16           | 59.44±0.38 (2.340±.015) | 63.40 (2.496) | ▼ -16- ▼        | ▼ 16       |

ENGINEERING NO.

40174-XX-XXXX

A B C D

A : CABLE 3.96mm. (.156") CENTERS 18 AWG STRANDED TINNED

B : CONDUCTOR SIZE ( AVAILABILITY 2 THROUGH 16 )

C : CABLE LENGTH 100FT. (30.48M.)

D : A = INCHES

B = FEET

|                                                                                                                                              |                                                                                                                                                                                                       |             |                                                            |       |                          |                            |                                                                                                                                  |                                                                                                         |                                                                                                                |                              |                     |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|-------|--------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------|---------------------|
| SEE CHANGE DETAIL<br>EC NO: THL2011-0054<br>DRWN:CPANSAKHOM 2010/10/06<br>CHKD:PMEECHAI 2011/01/25<br>APPR:SVIRAT JAPOL 2011/03/31<br><br>B1 | QUALITY SYMBOLS<br><br>= <br>=  | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |       | DIMENSION STYLE<br>MM/IN |                            | SCALE<br>NTS                                                                                                                     | DESIGN UNITS<br>INCH                                                                                    |  THIRD ANGLE<br>PROJECTION |                              |                     |
|                                                                                                                                              |                                                                                                                                                                                                       |             |                                                            | mm    | INCH                     | DRAWN BY<br>CPANSAKHOM     | DATE<br>2006/08/09                                                                                                               | TITLE<br>FCB ROUND CONDUCTOR<br>3.96MM(.156)CENTERS PVC.<br>18AWG STRANDED TINNED<br>MOLEX INCORPORATED |                                                                                                                | DOCUMENT NO.<br>SD-40174-001 |                     |
|                                                                                                                                              |                                                                                                                                                                                                       |             | 4 PLACES                                                   | ± --- | ± ---                    | CHECKED BY<br>PMEECHAI     | DATE<br>2006/08/09                                                                                                               |                                                                                                         |                                                                                                                |                              |                     |
|                                                                                                                                              |                                                                                                                                                                                                       |             | 3 PLACES                                                   | ± --- | ± ---                    | APPROVED BY<br>SVIRATJAPOL | DATE<br>2006/08/09                                                                                                               |                                                                                                         |                                                                                                                |                              |                     |
|                                                                                                                                              |                                                                                                                                                                                                       |             | 2 PLACES                                                   | ± --- | ± ---                    | MATERIAL NO.               |                                                                                                                                  |                                                                                                         |                                                                                                                |                              | SHEET NO.<br>3 OF 3 |
|                                                                                                                                              |                                                                                                                                                                                                       |             | 1 PLACE                                                    | ± --- | ± ---                    |                            |                                                                                                                                  |                                                                                                         |                                                                                                                |                              |                     |
|                                                                                                                                              |                                                                                                                                                                                                       |             | ANGULAR ± ---°                                             |       | SEE CHART                |                            |                                                                                                                                  |                                                                                                         |                                                                                                                |                              |                     |
|                                                                                                                                              |                                                                                                                                                                                                       |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SIZE<br>A4               |                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                         |                                                                                                                |                              |                     |

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